“GTG”* Way Ahead

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Date: 12 Feb 01

***GCCS-AF/TBMCS/GCSS-AF**

As of: 6 Feb 01

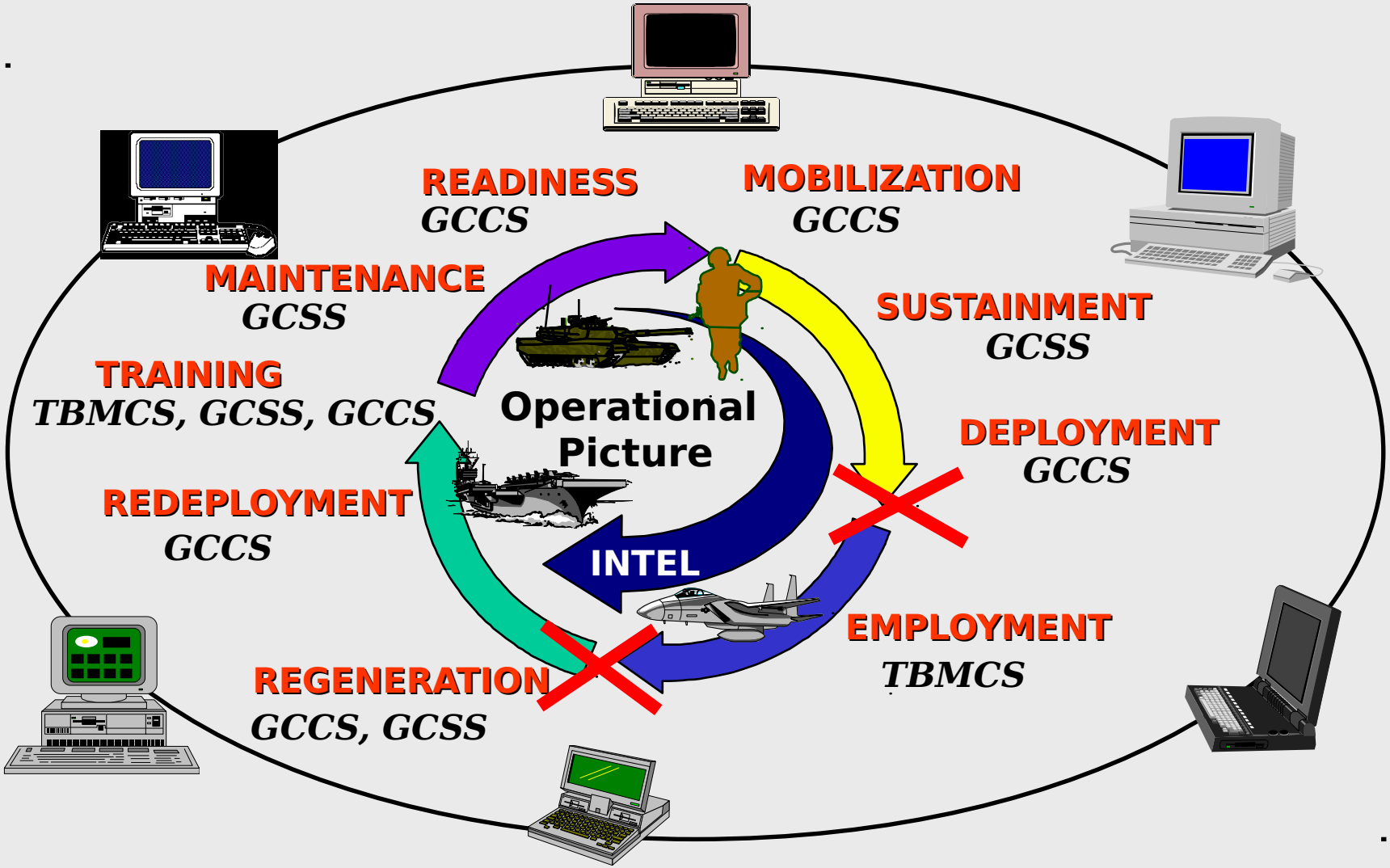
Agenda

- GTG Objectives
- Reference Architecture
- Other Tiger Team Issues
- PPBS Inputs
- Summary

GTG Objectives

- **Provide Seamless C2 System Interoperability among Air Component, MAJCOM and Unit Level**
- **Provide Web Based Applications for Users**
- **Reduce Duplicate Hardware and Software Among C2 Programs**
  - **Reduce deployment footprint and sysad workload**

Deployment and Employment Processes Disconnected



Tiger Team Participants
GCCS/TBMCS/GCSS Key Stakeholders

- ESC/DI (Chair)
- AF-CIO/GDI
- SAF/AQII
- AF/SCMO
- AC2ISRC/A3 & /A6
- ESC/AC
- ESC/IO
- ESC/DIE
- ESC/CX
- SSG/DII

Tiger Team Charter

- **Develop a Plan Which Identifies a Common Integration Framework for Combat C2 and Combat Support**
  - **Identify a Comprehensive Set of Characteristics**
  - **Identify Issues to be Resolved**
  - **Recommend Migration Strategy**
    - **Identify Migration Roadmap, Timeline, Roles and Responsibilities and Budget Inputs**

Tiger Team Near-Term Issues

- Reference Architecture
- Hardware Deployment
- Software Applications and Components
- Operational Requirements
- Secure Network Architecture
- Configuration Management

Reference Architecture

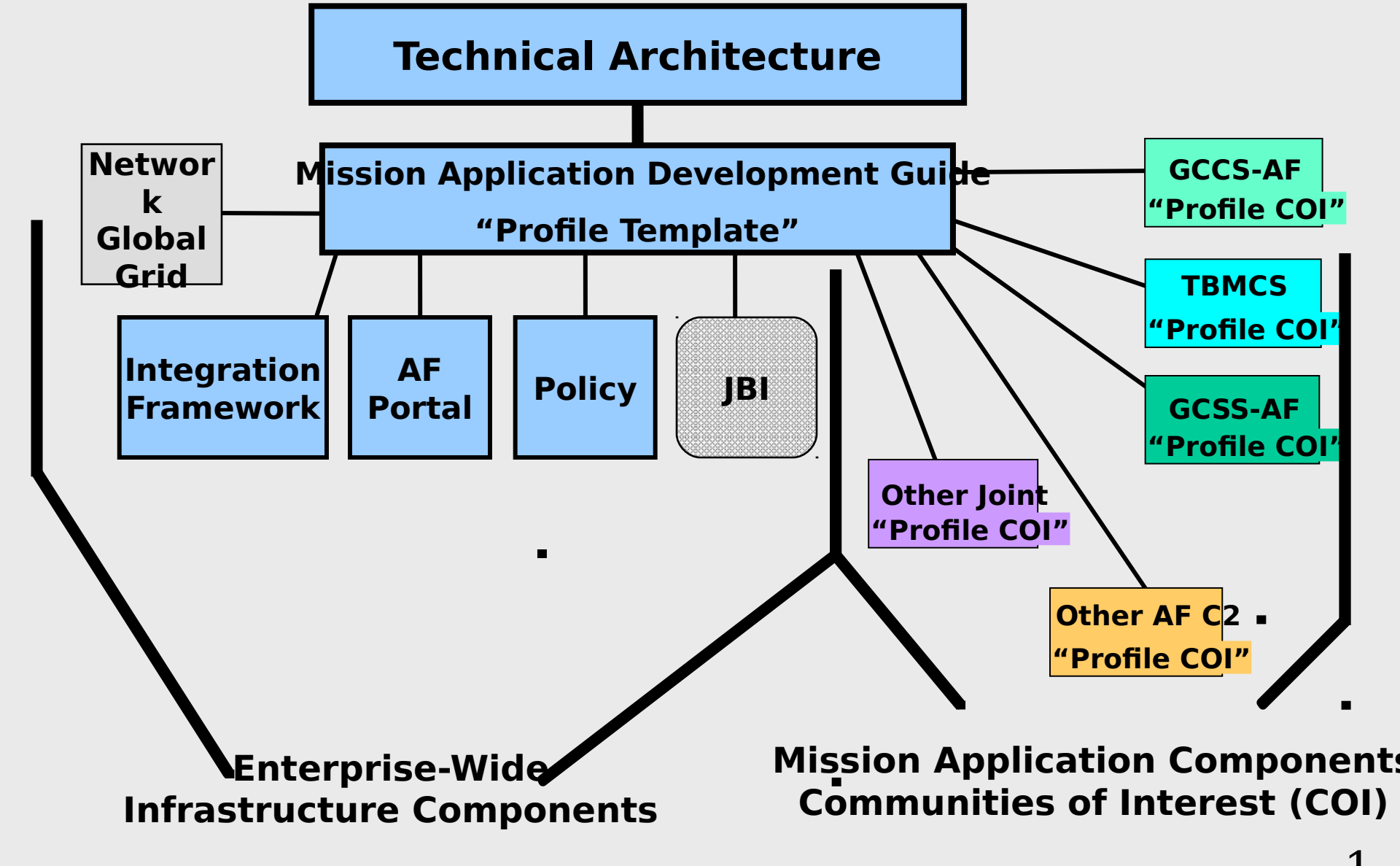
- **Operational Objective**
  - **Interoperable Combat C2 and Combat Support**
  - **Initial Focus on GTG Systems**
- **Strategy**
  - **Create a Technical Architecture for Systems Development**
  - **Provide Common Approach for Web**
  - **Provide Guidance for Integration, Migration and Evolution**
- **Use GCSS-AF Integration Framework As Starting Point**
  - **Standards-Based**
  - **Web-Enabled (threshold) and Web-Based (Goal)**

Reference Architecture Scope

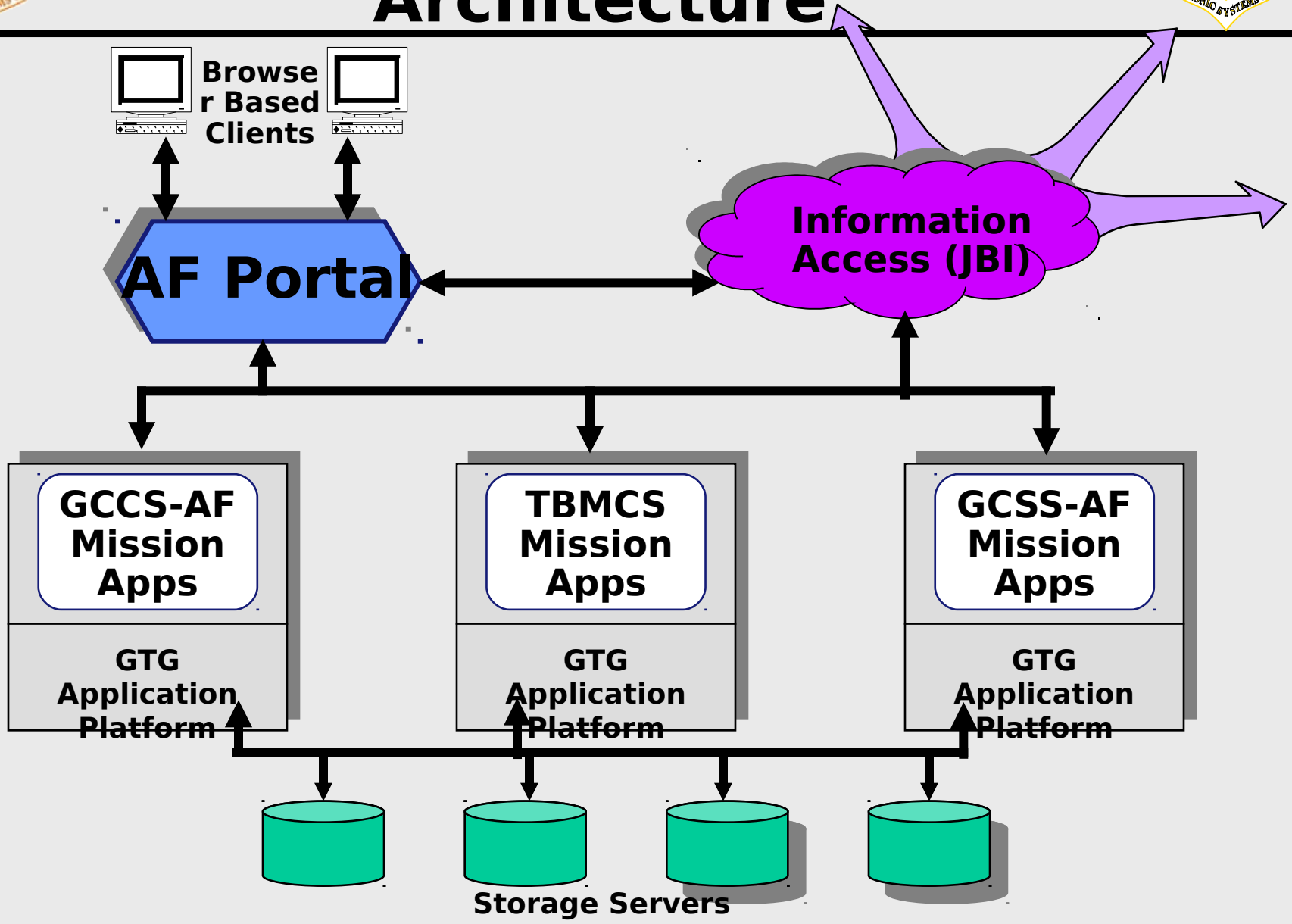
- **Strategy for Mission Application Development and Integration**
  - **Enterprise-Wide Infrastructure**
  - **User Communities of Interest (COI)**

- **Enterprise-Wide Infrastructure Elements**
  - **Security**
  - **AF Portal**
  - **Global Grid**
  - **JBI**

Reference Architecture Model



Notional Systems Architecture



Hardware Deployment

- **Operational Objective**
  - **One Box on the User's Desk**
- **Issue**
  - **Possible Duplication in Servers, Clients, Communications**
- **Goals**
  - **Leverage Requirements to Reduce Development Activity**
  - **Take Advantage of Scale for Purchases and Maintenance**
  - **Strive for Common Clients and Servers to Reduce Footprint**

Software Applications and Components

- **Operational Objective**
  - **Maximize Shared Software Applications**
- **Issues**
  - **Different Applications and Software Components used to Perform Similar Functions**
    - **Example: Multiple COP's**
- **Goals**
  - **Eliminate Software Differences**
  - **Move to using Common Applications Within Communities of Interest**
  - **Break down monolithic structures into components**
    - **More flexible for user**

Operational Requirements

- **Operational Objective**
  - **Provide Operational Requirements and Guidance for the Integration of C2/CS Information System Capabilities Across Mission and Program Boundaries**
- **Issues**
  - **Alignment of GCCS, TBMCS, and GCSS CONOPS**
    - **ORD? CRD? Operational Capabilities Document?**
  - **Provide Program Guidance and Alignment to Meet Operational Objectives**
    - **PMD Updates**
  - **Coordinate Requirements Management Processes**
- **Goal**
  - **Clear Identification of C2/CS Requirements**

Secure Network Architecture

- **Operational Objective**
  - **Single Security Network Architecture for GTG Programs**
- **Issues**
  - **Conflicting Security Architectures in GTG Programs**
  - **Configuration Control of Network Baseline**
- **Goal**
  - **Develop Common, Flexible Secure Network Architecture System for Present and Future Installations of GCCS, TBMCS and GCSS**
    - **Start with issue of GCCS/TBMCS base-level infrastructure**

Configuration Management

- **Operational Objective**
  - **Provide a Stable Baseline for GTG Programs**
- **Issue**
  - **Coordinated Configuration Management of Reference Architecture, Hardware, Software Applications, and Security Architecture**
- **Goals**
  - **Establish and Maintain AF-Approved Configuration for GTG Ref Arch and Components**
    - **Essential for Compliance to C4ISP and OSS&E**
  - **Establish Requisite Configuration Management Process**
    - **Needs Interfaces with Requirements Processes**

PPBS Inputs

- 04 POM Inputs Based on Newly Identified GTG Integration Requirements
- Goal: Coordinated Seamless Requirements, Funding and Implementation Stream Across GTG Programs
  - CRD/ORD
  - CONOPS
  - POM Input
  - PMD Modifications
- Tiger Team looking at targets of opportunity for pre-04 funding

Summary

- **GCCS-AF, TBMCS, GCSS-AF (GTG) Tiger Team has Proposed Use of Common Integration Framework**
  - **Based on Current GCSS-AF Model**
  - **Extended to Include AF Portal and Incorporate JBI**
  - **Web-Based, Enterprise-Wide Infrastructure Elements**
- **Focus**
  - **Improve Interoperability of GTG Systems**
  - **Reduce Logistics Footprint and Increase Operational Usability of GTG Systems**
- **Submit Coordinated 04 POM Input While Looking for Earlier Opportunities**

Backups